SECRET [redacted] 25X1

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1968 JUN 27 17 39Z

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FM NPIC WASHDC
TO RUEOJFA/DIA (DIAXX-2)
RUEOJFA/JCS (JRC)
RUEFHQA/HQ USAF FOR AFNICAD, AFRDRP & SAFSS
RUCSAAA/SAC (DIR)
RUWMDDA/9 SRW (DCI)
BT
S E C R E T [redacted] CITE NPIC 4098. 25X1
SUBJECT: EVALUATION OF GIANT SCALE MISSION S026
1. QUALITY SUMMARY: MISSION S026 WAS FLOWN 3 JUNE 1968. A MALFUNCTION OCCURRED IN THE RIGHT OPERATIONAL OBJECTIVE CAMERA WHICH CAUSED A MAJORITY OF THE MATERIAL FROM THE CAMERA TO BE UNUSABLE. (PARA. 5, C). THE INTERPRETATION SUITABILITY OF THE CLOUD-FREE AREAS IS CONSIDERED GOOD. GROUND RESOLUTION FIGURES ARE EMPIRICAL ESTIMATES BASED ON EVALUATIONS OF SIMILAR SENSORS AND IMPLY A BAR AND A SPACE. [redacted] 25X1
AS USUAL, THE BEST GROUND RESOLUTIONS ARE LOCATED NEAR NADIR IN CLEAR AREAS. THE ORIGINAL NEGATIVES WERE USED TO DETERMINE THE FOLLOWING RESOLUTIONS:

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ADVANCE CY SANITIZED WITH TEXT

PAGE 2 RUEADJU 93 S E C R E T [redacted]
A. RIGHT OPERATIONAL OBJECTIVE CAMERA
B. LEFT OPERATIONAL OBJECTIVE CAMERA -
C. RIGHT TECHNICAL OBJECTIVE CAMERA -
D. LEFT TECHNICAL OBJECTIVE CAMERA -
2. CLOUDS OBSCURE OR DEGRADE 65 PERCENT OF THE ENTIRE MISSION. IN ADDITION, MUCH OF THE PHOTOGRAPHY WAS ACQUIRED OVER WATER THEREBY LIMITING THE CLOUD-FREE TERRAIN IMAGERY TO APPROXIMATELY 10 PERCENT OF THE MISSION.
3. THE MATERIAL WAS PROCESSED [redacted] THE MISSION EMPLOYED THE USUAL SENSORS. THE ONLY MATERIALS EVALUATED WERE THE ORIGINAL NEGATIVES FROM THE TECHNICAL AND OPERATIONAL OBJECTIVE CAMERAS. THE TERRAIN OBJECTIVE CAMERA MATERIAL WAS USED TO DETERMINE THE AREAS OF 80 PERCENT CLOUD-FREE PHOTOGRAPHY.
4. ANALYSIS OF THE TECHNICAL OBJECTIVE MATERIAL:
A. COMMENTS APPLICABLE TO BOTH CAMERAS:
(1) APPROXIMATELY 5 PERCENT OF THE PHOTOGRAPHY WAS ACQUIRED ABOVE 30 DEGREES OBLIQUITY.
(2) IMAGE SMEAR AND DOUBLE IMAGERY IS DETECTABLE IN HIGH OBLIQUITY FRAMES.
(3) THE RESULTS OF EDGE STATIC CAN BE DETECTED ALONG

PAGE 3 RUEADJU 93 S E C R E T [redacted]
BOTH EDGES OF THE FILM.
(4) BANDING, APPARENTLY DUE TO VIBRATION, IS PRESENT THROUGHOUT THE MISSION.
(5) MINUS DENSITY STREAKS, ASSOCIATED WITH THE PLATEN CONFIGURATION, ARE PRESENT IN ALL FRAMES.
(6) THE DENSITY AND CONTRAST ARE SATISFACTORY IN AREAS NOT AFFECTED BY CLOUDS OR HAZE.
B. LEFT TECHNICAL OBJECTIVE CAMERA (AL), S/N 64-21:
(1) RANDOM MINUS DENSITY STREAKS, PARALLEL TO THE MAJOR AXIS, ARE PRESENT INTERMITTENTLY.
(2) PLUS DENSITY STREAKS, LOCATED WITHIN 1.0 INCH OF THE NON-TITLED EDGE OF THE FILM, ARE PRESENT INTERMITTENTLY IN

GROUP 1
Excluded from automatic downgrading and declassification

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FRAMES 184 THROUGH 565. THESE STREAKS APPEAR TO BE PROCESSING INDUCED AS THEY ARE DETECTABLE IN THE CLEAR AREAS BETWEEN FRAMES. TWO PLUS DENSITY STREAKS, THE FIRST LOCATED 2.0 INCHES FROM THE TITLED EDGE AND THE SECOND 2.0 INCHES FROM THE NON-TITLED EDGE, ARE PRESENT INTERMITTENTLY THROUGHOUT THE MISSION.

(3) CAMERA OFF/ONS OCCUR BETWEEN THE FOLLOWING FRAMES: 57/58 AND 159/160.

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(4) THE LAST TITLED FRAME IS 882.

C. RIGHT TECHNICAL OBJECTIVE CAMERA (AR), S/N 64-08:

(1) RANDOM MINUS DENSITY STREAKS PARALLEL TO THE MAJOR AXIS, ARE PRESENT IN ALL FRAMES.

(2) A PLUS DENSITY STREAK, LOCATED 2.0 INCHES FROM THE TITLED EDGE OF THE FILM IS PRESENT INTERMITTENTLY THROUGHOUT THE MISSION. A WAVERING PLUS DENSITY STREAK, LOCATED .5 INCH FROM THE NON-TITLED EDGE, IS PRESENT IN NRAMES 779 THROUGH 802. IRREGULAR SHAPED PLUS DENSITY FOG AREAS ARE PRESENT INTERMITTENTLY IN FRAME 883 THROUGH THE END OF THE MISSION. THESE STREAKS AND FOG AREAS ARE PROBABLY PROCESSING INDUCED.

(3) A HEAT SPLICE IS LOCATED BETWEEN FRAMES 480, 481 AND AN ULTRASONIC SPLICE IS LOCATED IN FRAME 884.

(4) CAMERA OFF/ONS OCCUR BETWEEN FRAMES 67/68, 156/157, AND 184/185.

(5) THE LAST TITLED FRAME IS 945.

5. ANALYSIS OF THE OPERATIONAL OBJECTIVE CAMERA MATERIAL:

A. COMMENTS APPLICABLE TO BOTH CAMERAS:

(1) THE DENSITY AND CONTRAST OF THE NEGATIVE APPEAR

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SATISFACTORY WHERE THE CAMERAS OPERATED NORMALLY.

(2) THE FIRST 0.75 INCH OF SCAN FOR ALL FRAMES IS DEGRADED AND APPEARS OUT-OF-FOCUS. THE FIRST 0.20 INCH OF THIS IS MOST SEVERE.

(3) THE LAST FRAME OF EACH CAMERA OPERATION DISPLAYS FOG PATTERNS NORMALLY ASSOCIATED WITH A CAMERA OFF.

(4) THE TIME TRACK IS SHIFTED TOWARD THE SUPPLY END OF THE FILM AS IT HAS BEEN ON PREVIOUS MISSIONS.

B. LEFT OPERATIONAL OBJECTIVE CAMERA (CL), S/N 40-29

(1) THE TIME TRACK IS NOT IMAGED ON FRAMES 001 THROUGH 012.

(2) PLUS DENSITY STREAKS, PARALLEL TO THE MAJOR AXIS, ARE PRESENT NEAR THE CENTER OF THE FILM THROUGHOUT THE MISSION.

(3) HIGH FREQUENCY BANDING, PARALLEL TO THE MINOR AXIS AND MORE SEVERE THAN ON PREVIOUS MISSIONS, IS EVIDENT THROUGHOUT THE LAST HALF OF THE MISSION.

(4) A PROCESSING SPLICE IS LOCATED BETWEEN FRAMES 340/341.

(5) CAMERA OFF/ON: BETWEEN FRAMES 647/648.

(6) LAST TITLED FRAME: 1048.

C. RIGHT OPERATIONAL OBJECTIVE CAMERA (CR), S/N 40-30:

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(1) THE CAPPING SHUTTER FAILED TO CLOSE AFTER FRAME 458. THIS CAMERA MALFUNCTION RESULTED IN EXCESSIVE EXPOSURE WHICH FOGGED THE FILM DURING THE FILM TRANSPORT CYCLE. ALL FRAMES AFTER 458 ARE SERIOUSLY DEGRADED AND UNUSABLE FOR INTERPRETATION.

(2) THERE ARE NUMEROUS EMULSION SCRATCHES AND ABRASIONS THROUGHOUT THE MISSION. THEY APPEAR TO BE CAUSED AFTER PROCESSING.

(3) A MINUS DENSITY STREAK, PARALLEL TO THE MAJOR AXIS OF THE FILM AND 0.4 INCH FROM THE NON-TITLED EDGE, IS PRESENT ON EVERY FRAME.

(4) REGULAR CLEAR TAPE WAS USED FOR SPLICES BETWEEN FRAMES 340/341 AND 680/681.

(5) THE LAST TITLED FRAME IS 1052.

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S E C R E T [redacted] 25X1

END OF MESSAGE

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